

FIG. 1

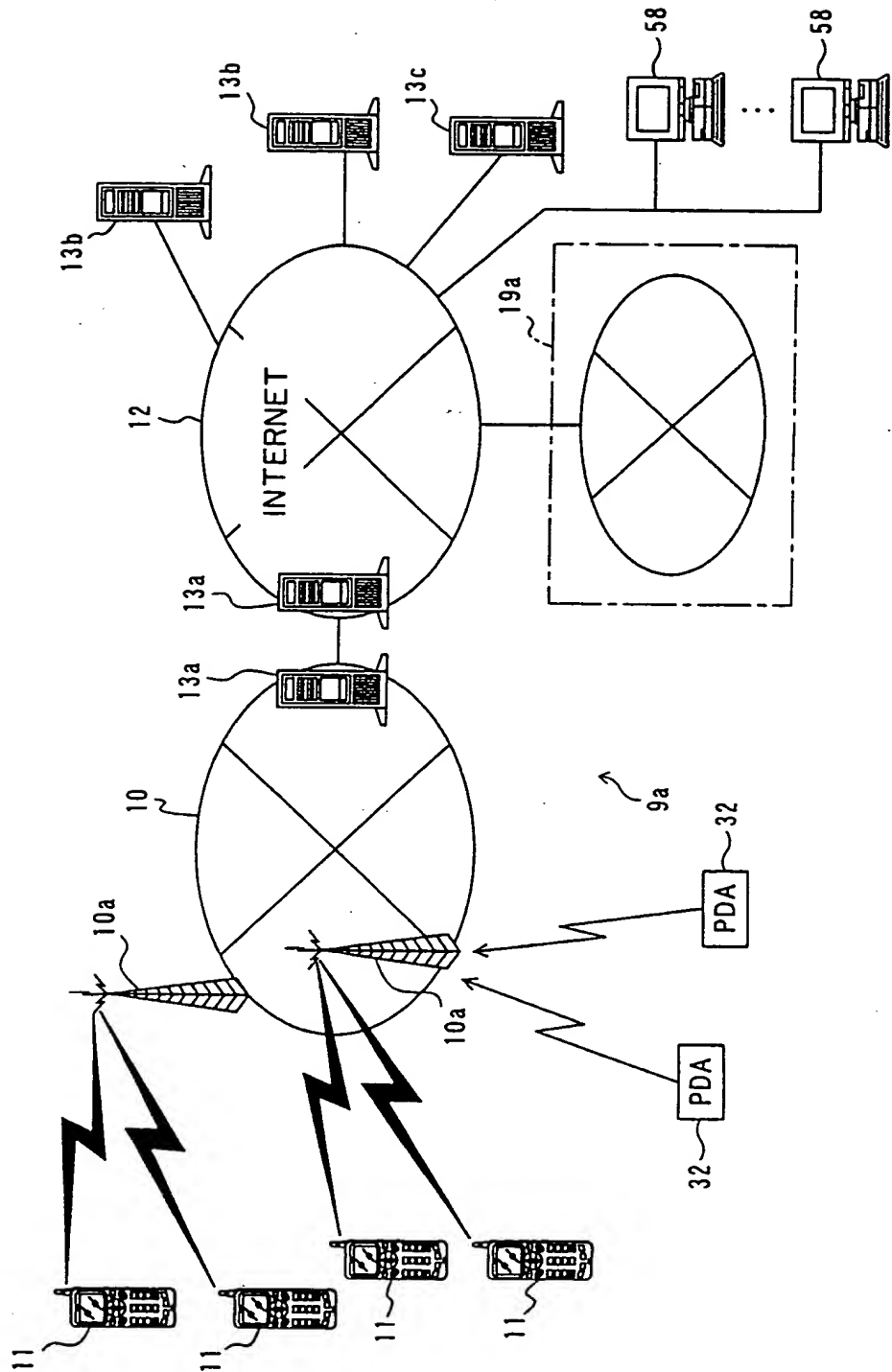


FIG. 2

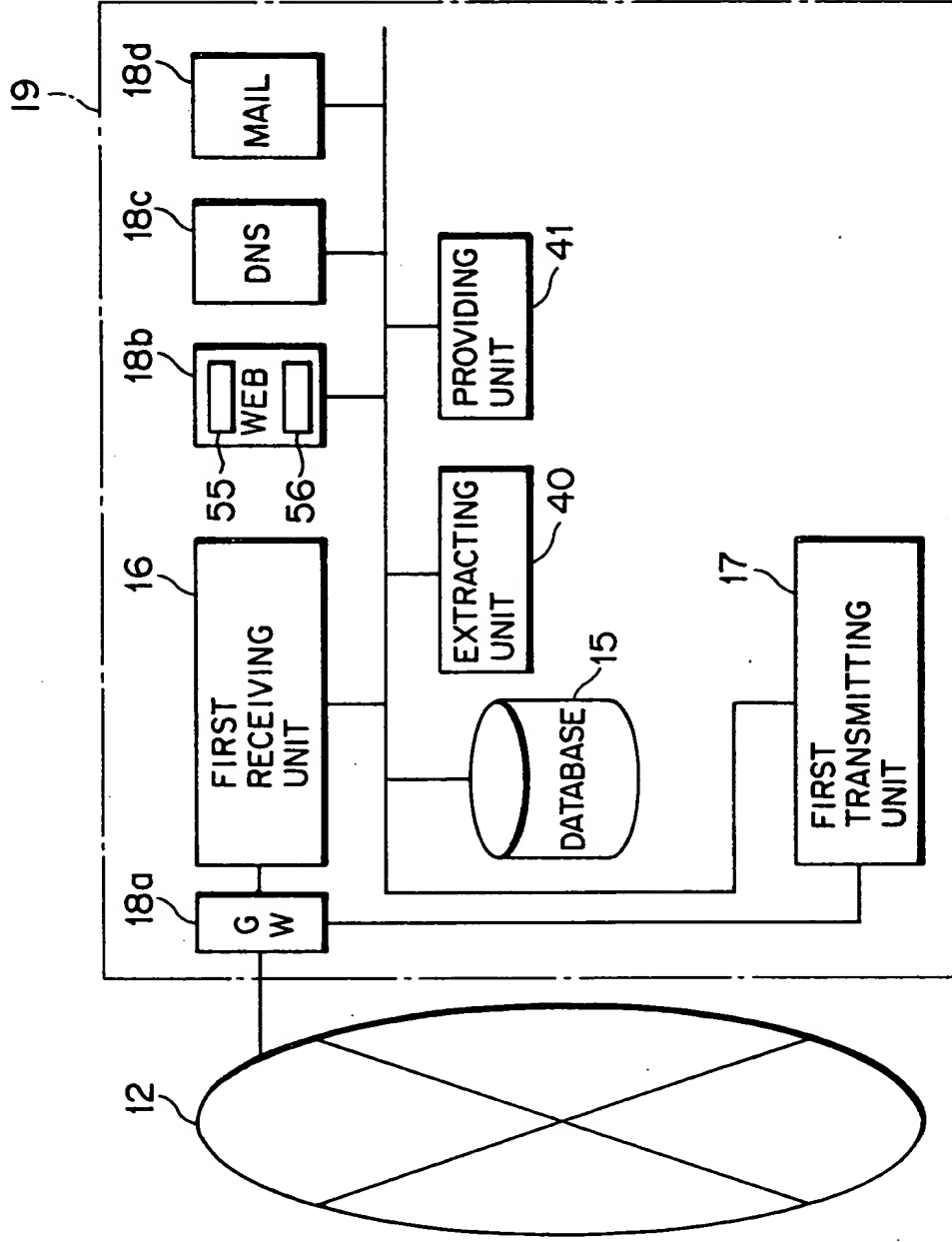


FIG. 3

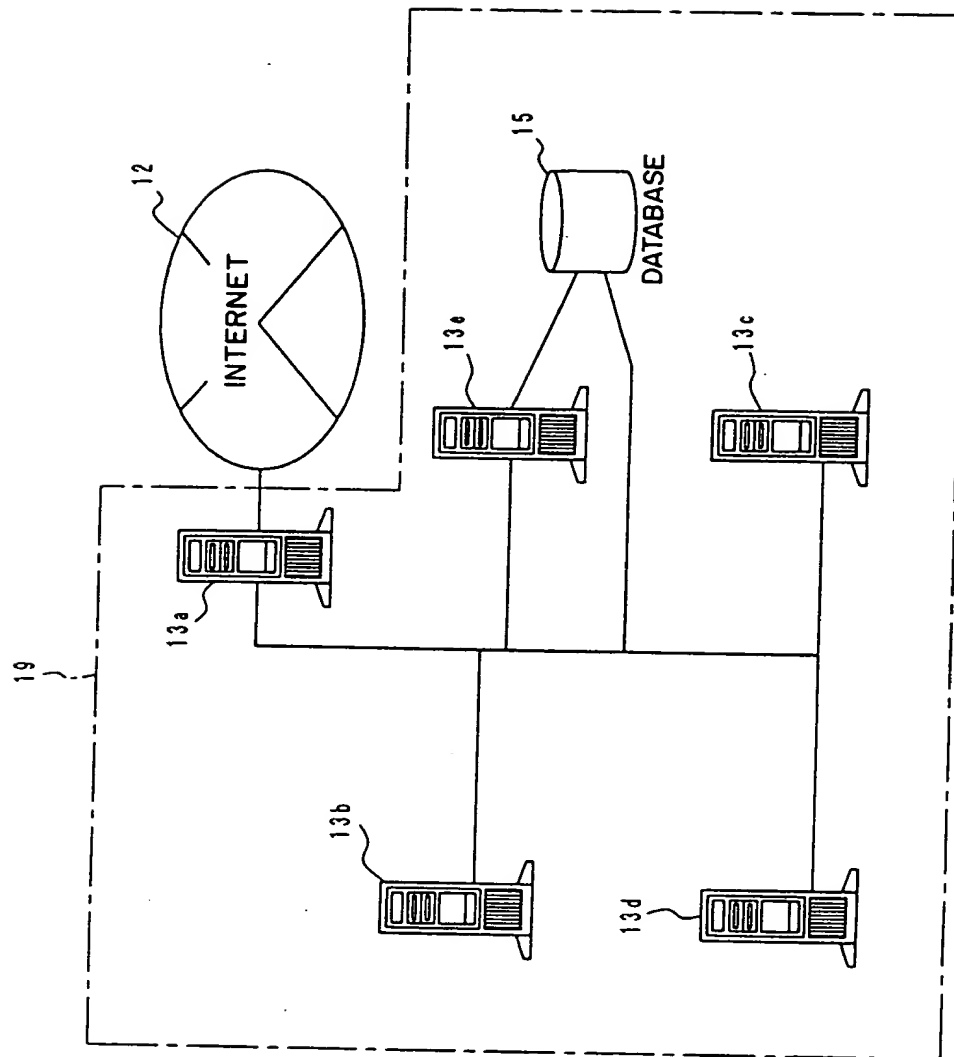


FIG. 4

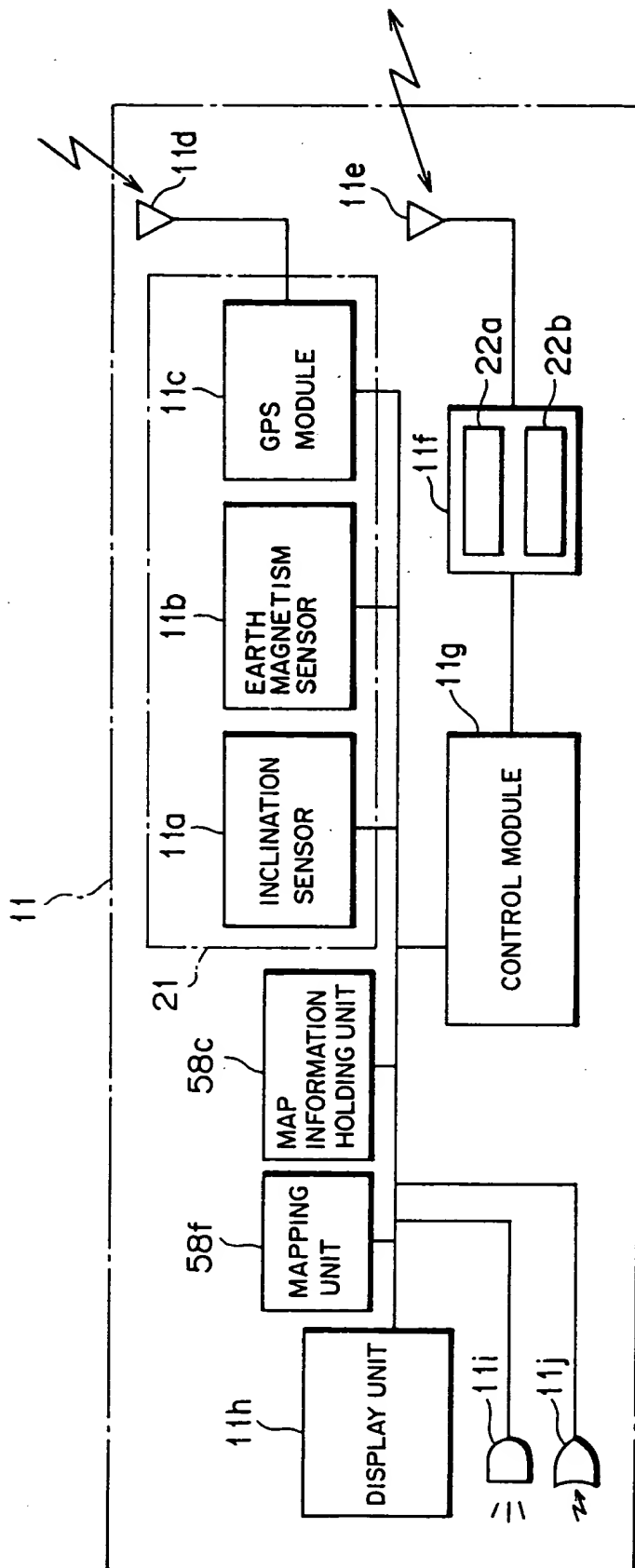


FIG. 5

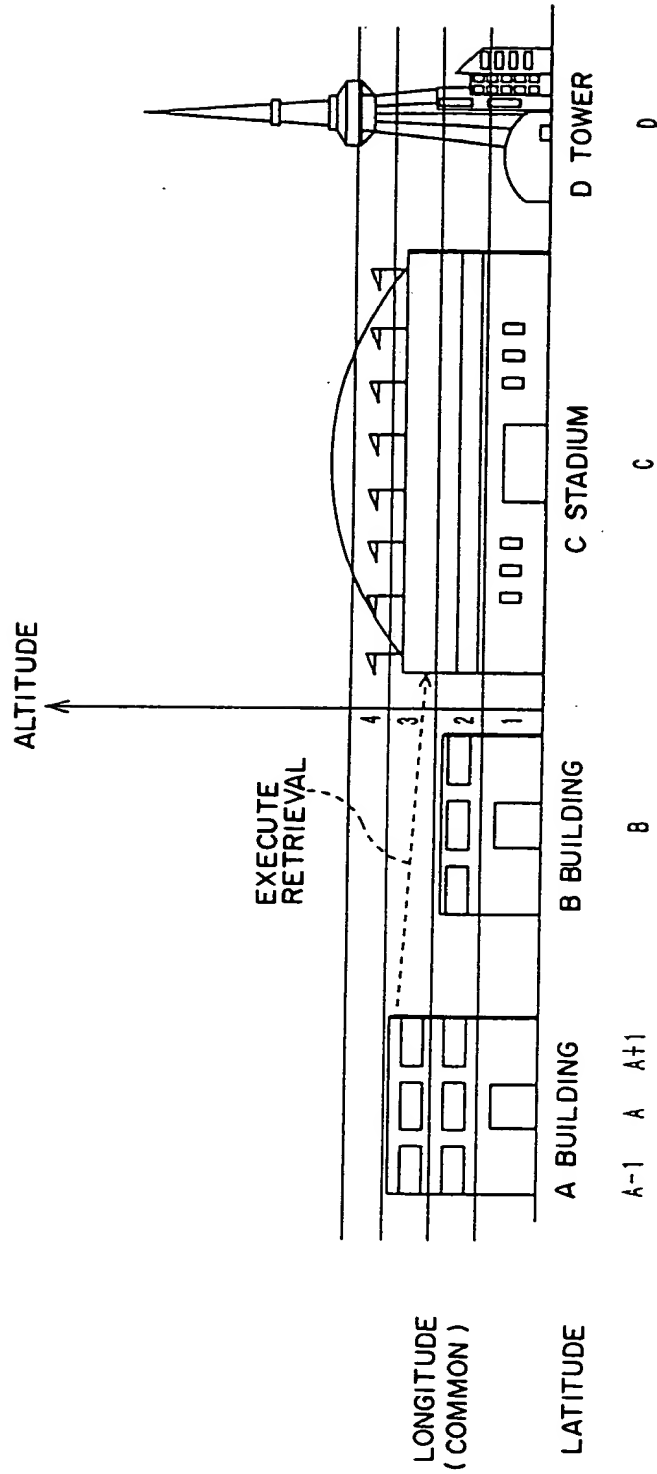


FIG. 6

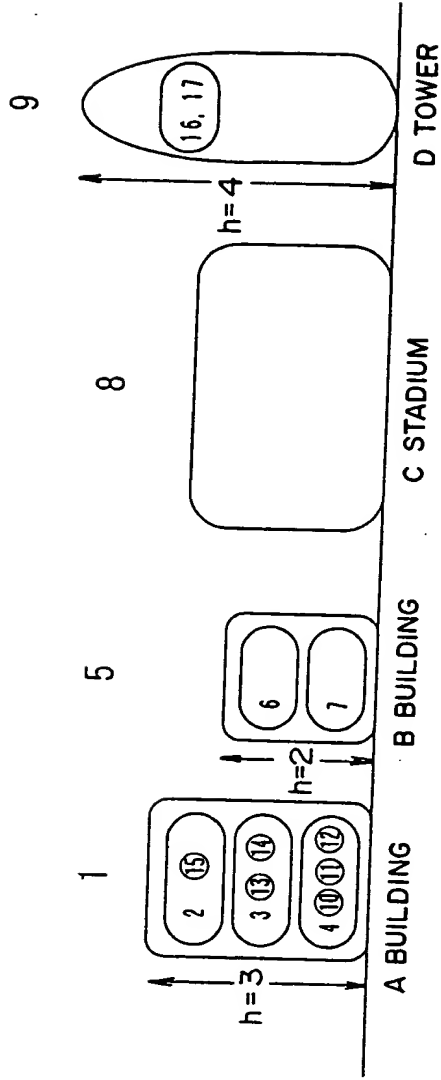


FIG. 7

15 (15a)

BUBBLE NUMBER	SPIATIAL OCCUPANCY INFORMATION	URL	ATTRIBUTE INFORMATION
1	A/X/0/3	http://www.xxx:100	PUB
2	A/X/3/1	http://www.xxx:101	HOSPITAL (SURGERY)
3	A/X/3/1	http://www.xxx:101	HOSPITAL (INTERNAL)
4	A/X/3/1	http://www.xxx:101	HOSPITAL (STOMACH AND INTESTINAL)
5	A/X/3/1	http://www.xxx:101	HOSPITAL (NOSE AND EAR)
6	A/X/2/1	http://www.xxx:102	HOTEL
7	A/X/1/1	http://www.xxx:103	GASOLINE STATION
8	B/X/0/2	http://www.xxx:200	PREPARATORY SCHOOL (TENTH-GRADE)
9	B/X/0/2	http://www.xxx:200	PREPARATORY SCHOOL (TWELFTH-GRADE)
10	B/X/2/1	http://www.xxx:201	ITALIAN RESTAURANT
11	B/X/1/1	http://www.xxx:202	TAX OFFICE
12	C/X/0/3	http://www.xxx:300	STADIUM
13	D/X/0/4	http://www.xxx:400	RADIO TOWER
14	A-1/X/1/0.5	http://www.xxx:110	RESTAURANT
15	1/X/1/0.5	http://www.xxx:111	STATION
16	A+1/X/1/0.5	http://www.xxx:112	FIREHOUSE
17	A-1/X/2/0.5	http://www.xxx:120	TEMPLE
18	A/X/2/0.5	http://www.xxx:121	ELECTRIC APPLIANCES STORE (PERSONAL COMPUTER)
19	A/X/2/0.5	http://www.xxx:121	ELECTRIC APPLIANCES STORE (CELL PHONE)
20	A/X/2/0.5	http://www.xxx:121	ELECTRIC APPLIANCES STORE (REFRIGERATOR)
21	A/X/3/0.5	http://www.xxx:130	CHINESE RESTAURANT
22	D/X/4/0.5	http://www.xxx:410	ART MUSEUM
23	D/X/4/0.5	http://www.xxx:411	BOOK STORE

[illegible]

FIG. 8

BUBBLE NUMBER	SPACIAL OCCUPANCY INFORMATION (LATITUDE / LONGITUDE ALTITUDE / BUBBLE DIAMETER)	OBJECT URL	CONTENT NAME
1	149° 22' 20" / 62° 11' 11" /30/5	http://www.nifty.ne.jp/ gps/user/mori/index.html	A BUILDING
2	149° 21' 15" / 62° 09' 04" /15/20	http://www.nifty.ne.jp/ gps/user/yashi/index.html	B RESTAURANT
3	149° 19' 12" / 62° 14' 07" /50/200	http://www.nifty.ne.jp/ gps/com/fujitsu/index.html	C STADIUM
4			

FIG. 9(a)

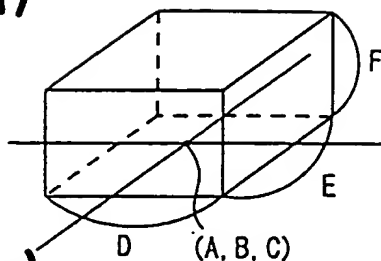


FIG. 9(c)

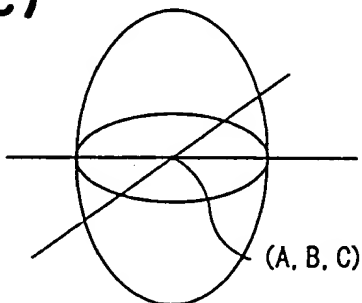


FIG. 9(e)

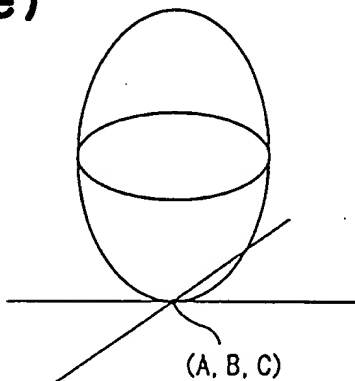


FIG. 9(g)

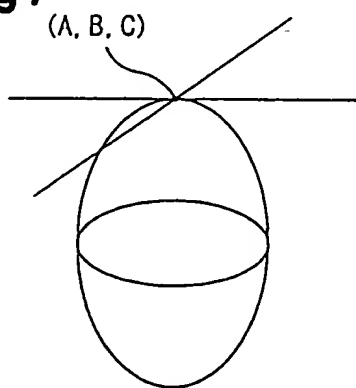


FIG. 9(b)

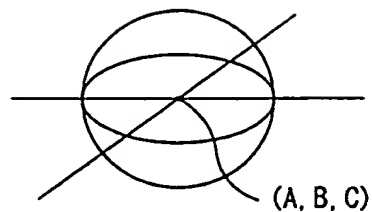


FIG. 9(d)

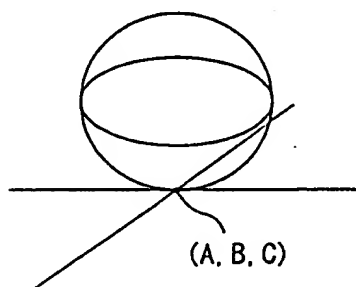


FIG. 9(f)

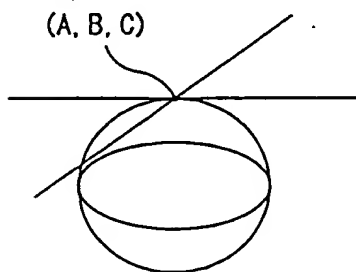
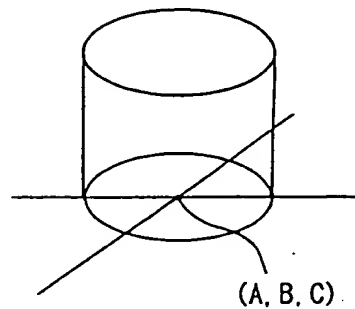


FIG. 9(h)



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FIG. 10

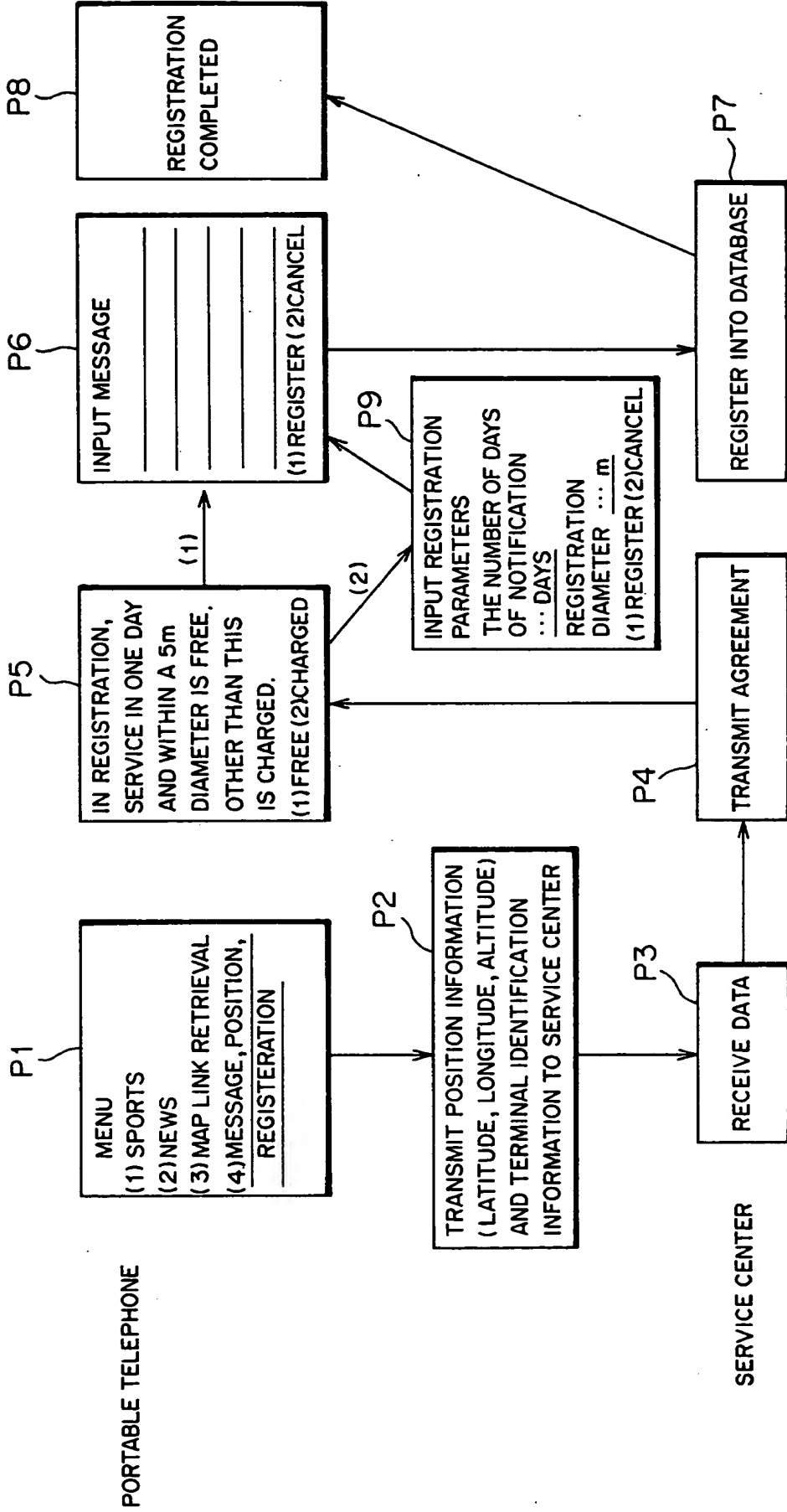


FIG. 11

BUBBLE DIAMETER	INFORMATION NOTIFICATION TIME (DAY)	CHARGE	NOTE
5	1 DAY 2 WEEKS 3 MONTHS	0YEN 100YEN 1000YEN	PERSNAL USE USE TO COLLECT MEMBERS OF A CIRCLE OR THE LIKE MENU OF ONE - MAN SHOP
20	1 DAY 2 WEEKS	1000YEN 5000YEN	AD. OF BARGAIN SALE ROAD GUIDANCE
50	1 DAY 1 WEEK	2000YEN 10000YEN	FESTIVAL GUIDANCE
100	1 MONTH 6 MONTHS	100000YEN 500000YEN	COMPANY AD. (COMPANY PROFILE)

FIG. 12

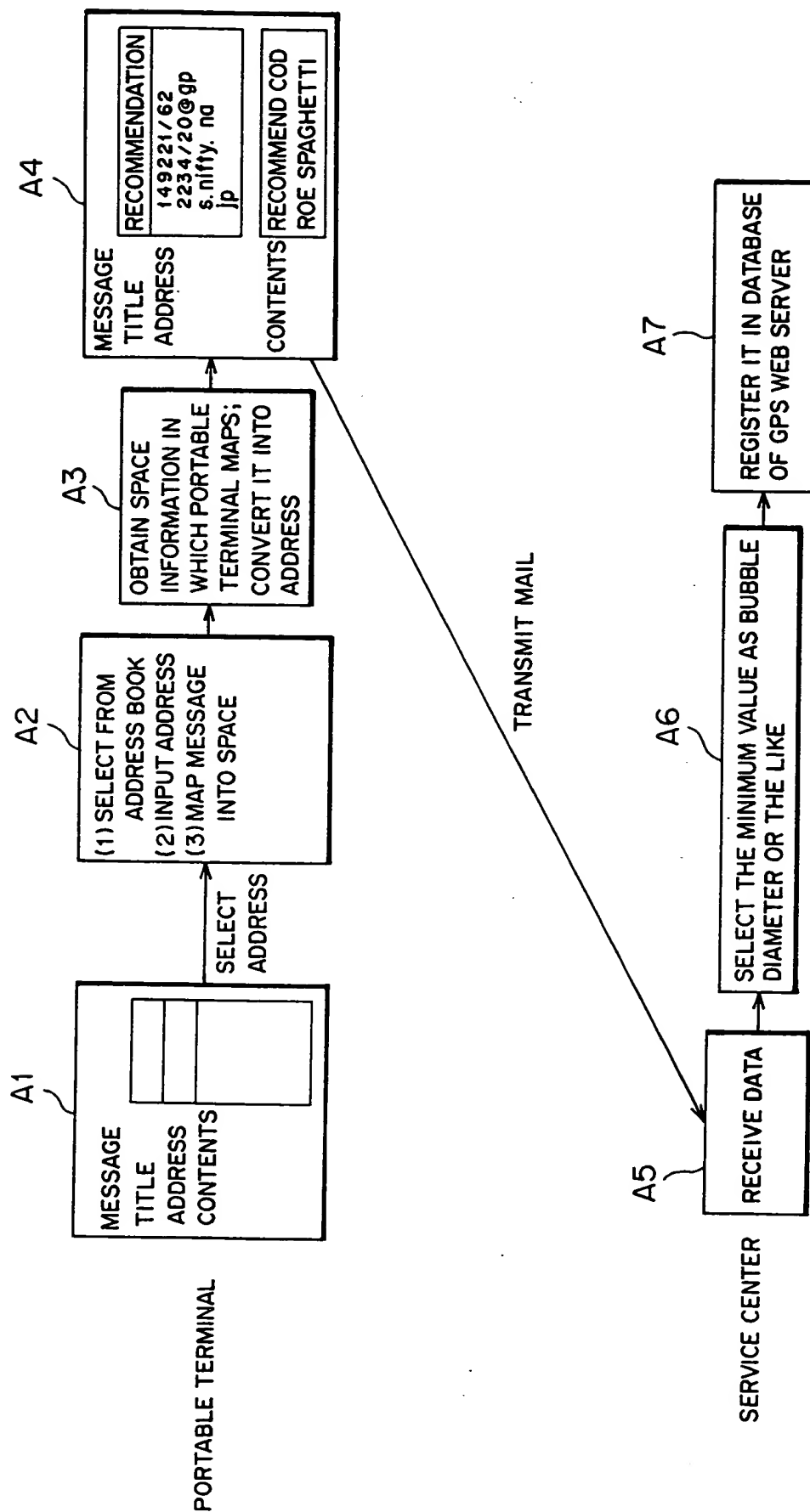


FIG. 13

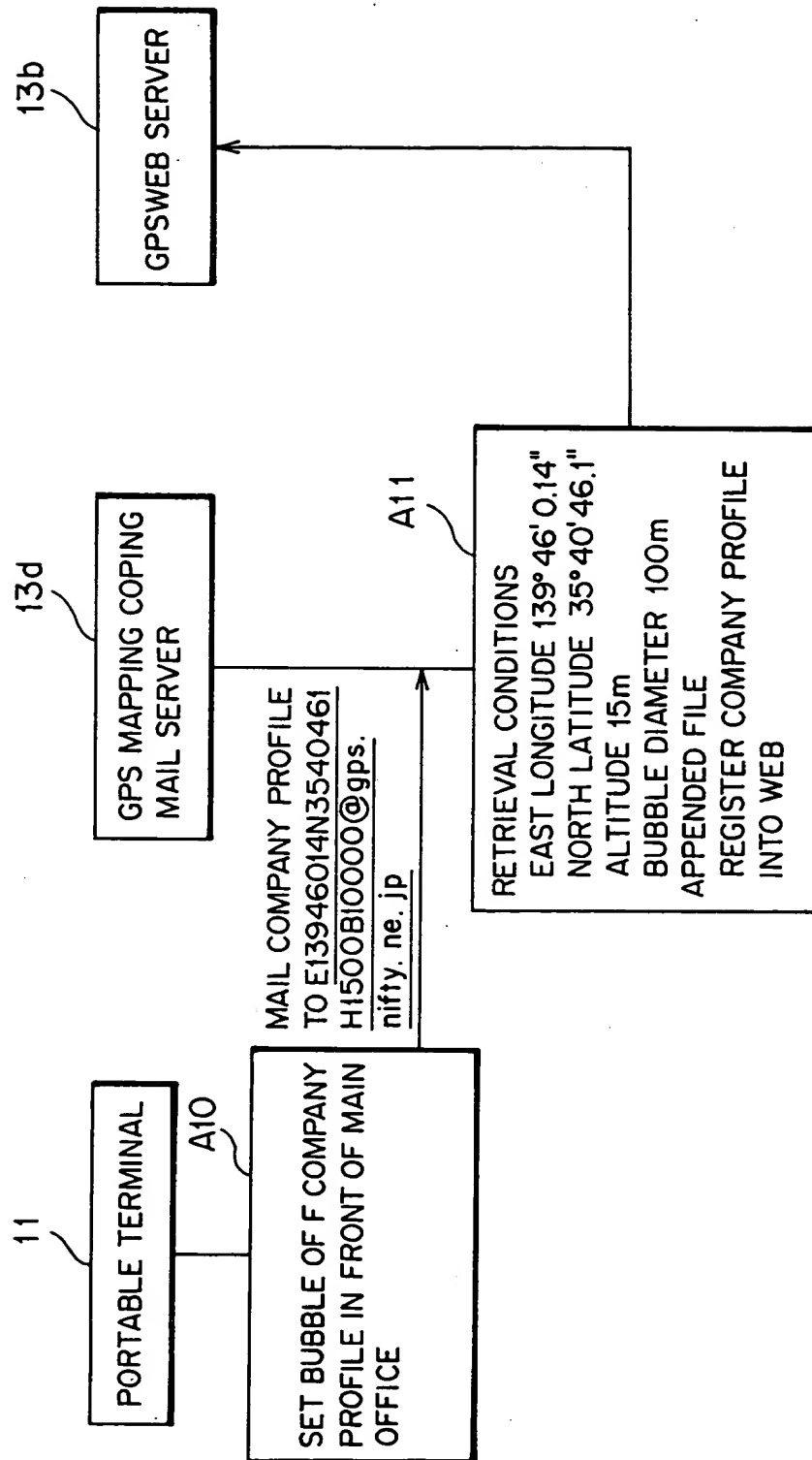


FIG. 14

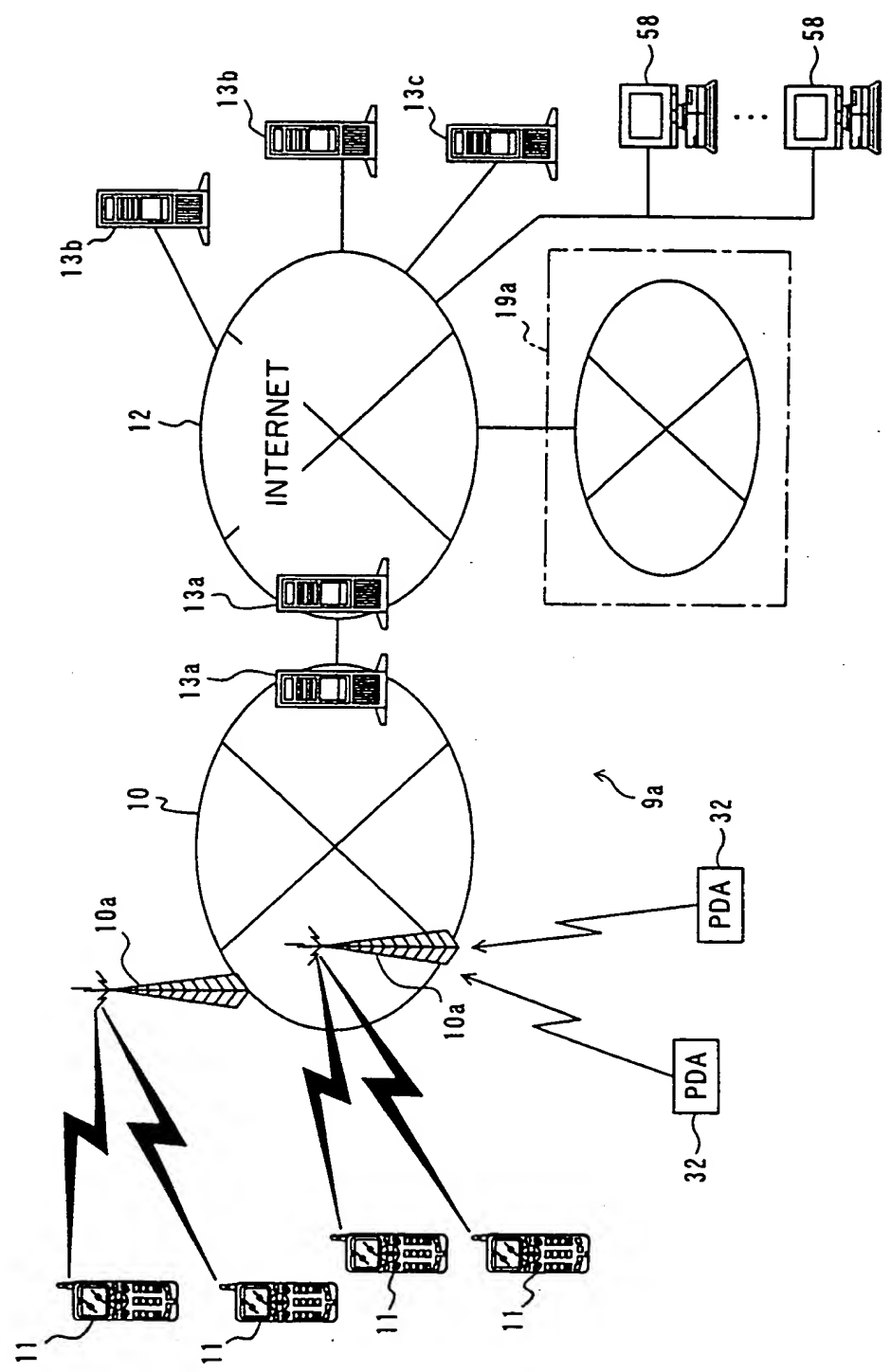


FIG. 15

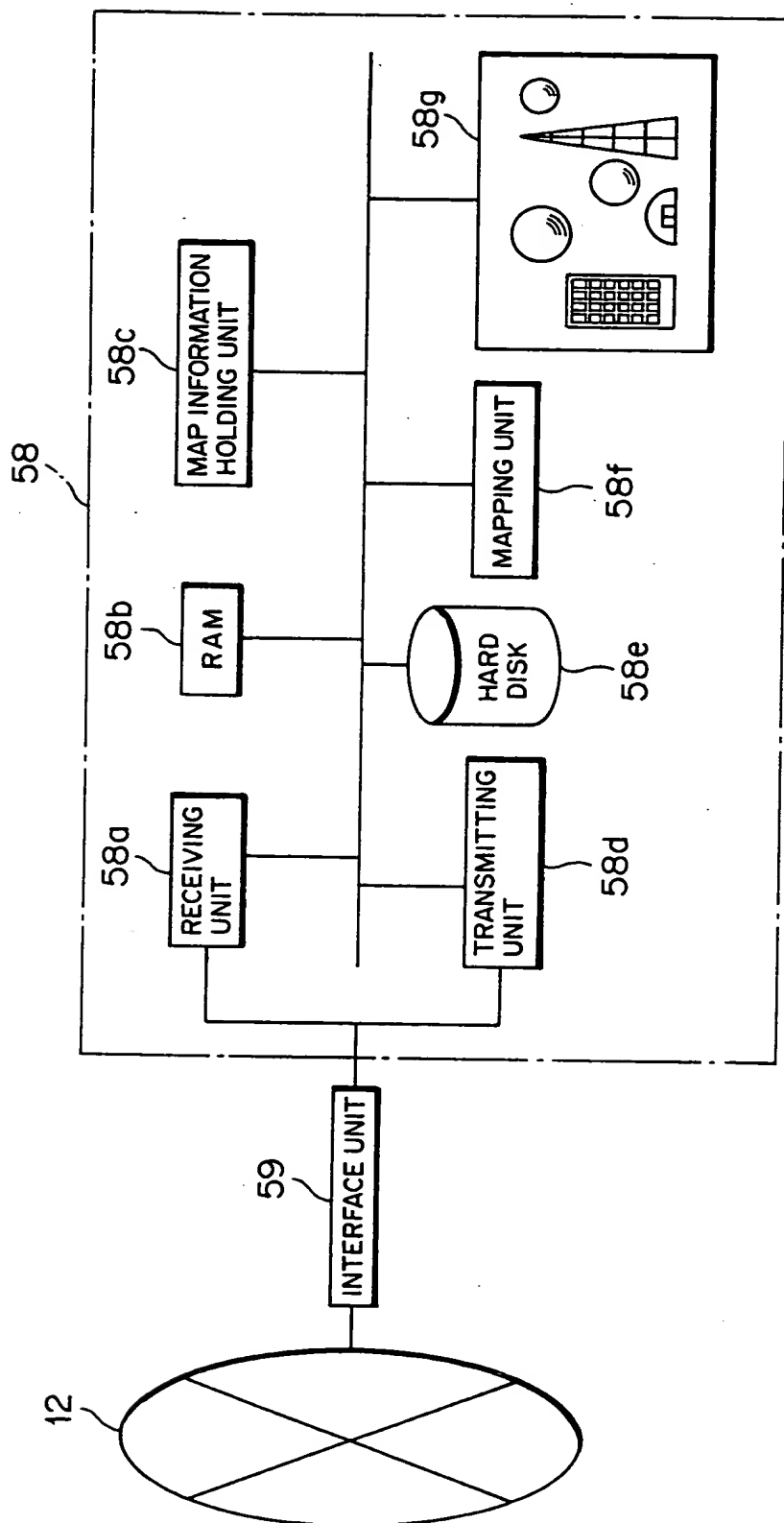


FIG. 17

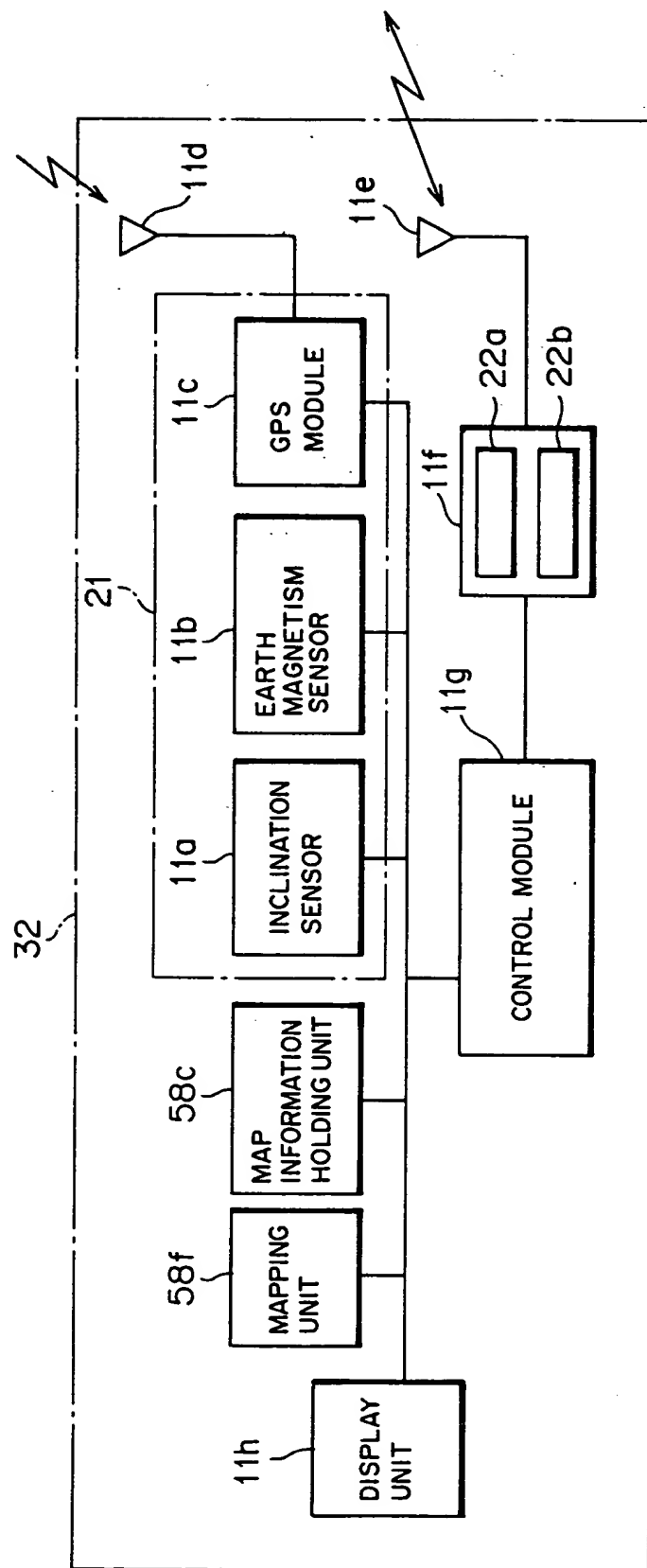
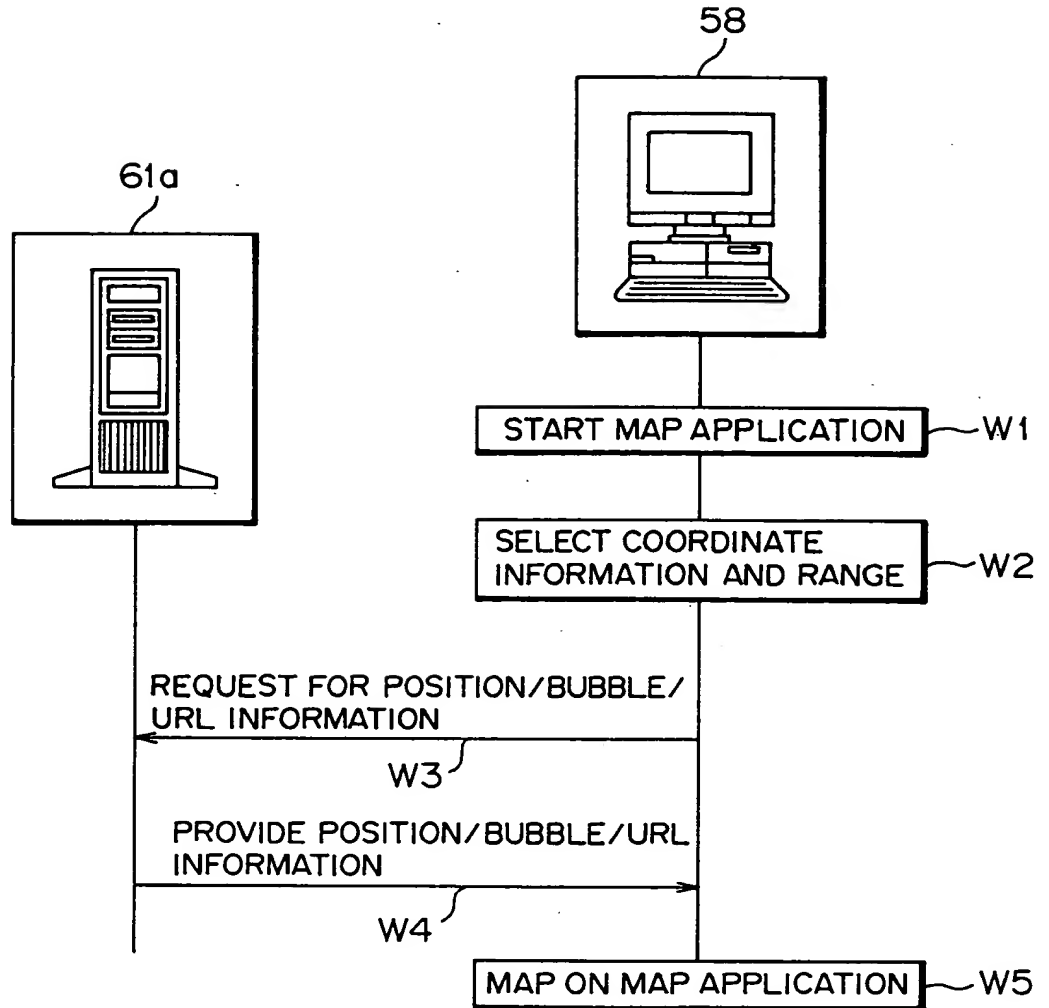


FIG.18



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FIG. 19

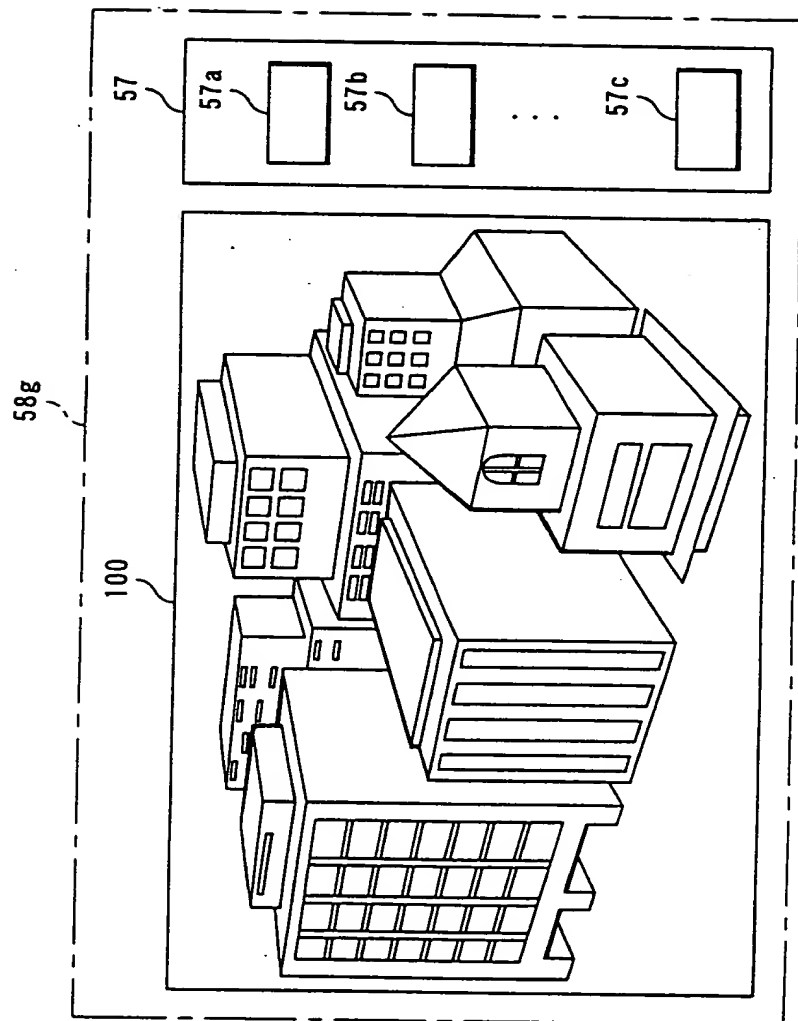


FIG. 20

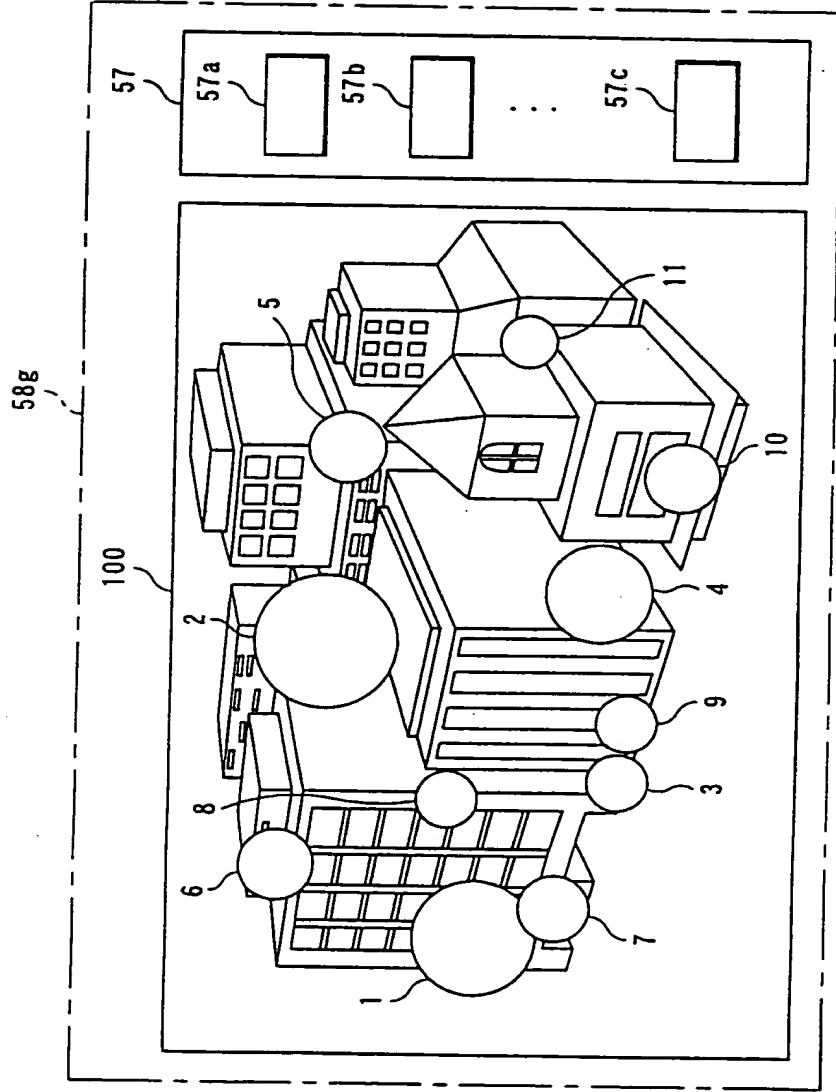


FIG. 21

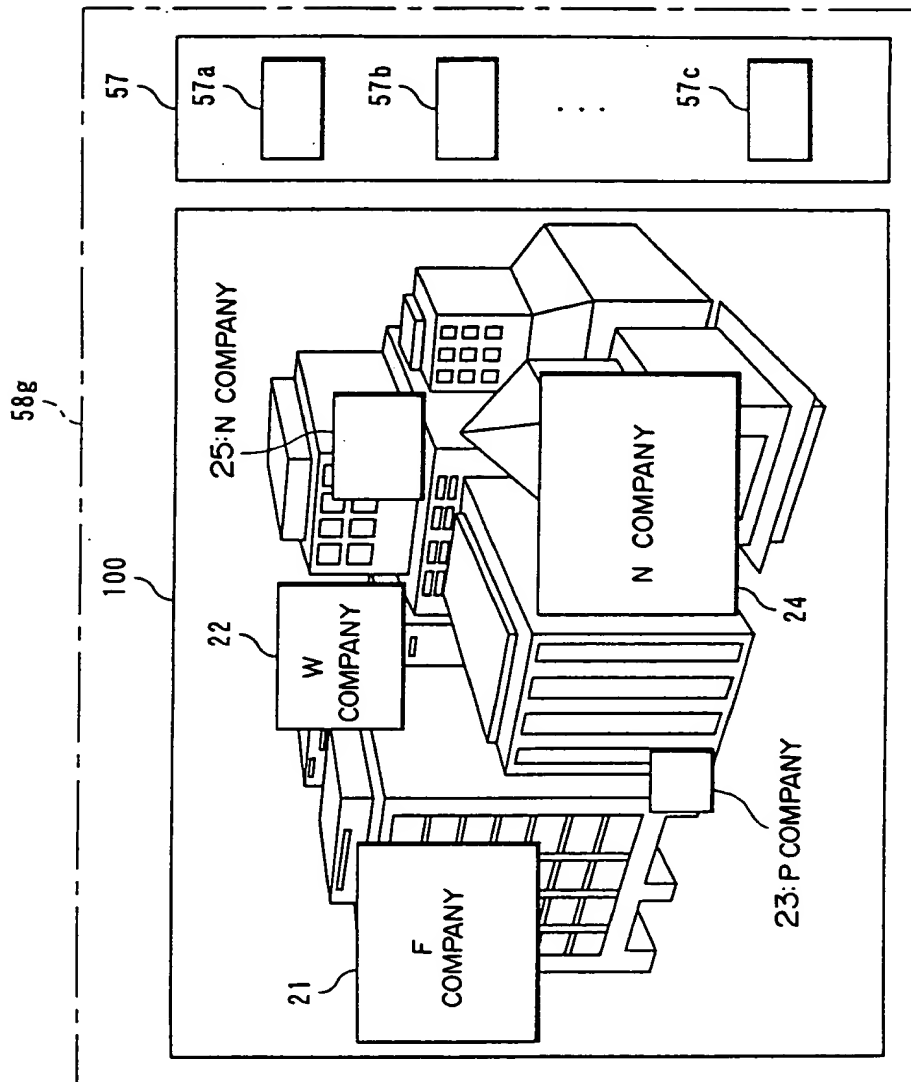


FIG. 22

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<pre><bubble> <latitude>139, 46, 1. 3</latitude> <longitude>35, 40, 45. 7</longitude> <altitude>50</altitude> <size>dynamic50</size> <animation>honsya. gif</animation> <lifedate>01/04/27</lifedate> </bubble></pre>	<p>LATITUDE 139° 46' 1.3"</p> <p>LONGITUDE 35° 40' 45.7"</p> <p>ALTITUDE 50m</p> <p>BUBBLE DIAMETER 50m</p> <p>DISPLAY CHARACTER honsya. gif</p> <p>DISPLAYABLE DATE : UP TO 2001/04/27</p>
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FIG. 23(a)

- CHILD ELEMENTS OF DTD INFORMATION
- LATITUDE, LONGITUDE, ALTITUDE
 - BUBBLE DIAMETER
 - DISPLAY ANIMATION
 - ATTRIBUTE INFORMATION
 - STARTUP APPLICATION
 - STATE FILE NAME
 - URL

FIG. 23(b)

- STATE FILE
- LIFE COUNTER
 - LIFE DATE
 - STARTUP FILE NAME
 - DYNAMIC BUBBLE DIAMETER
 - ACCESS HISTORY

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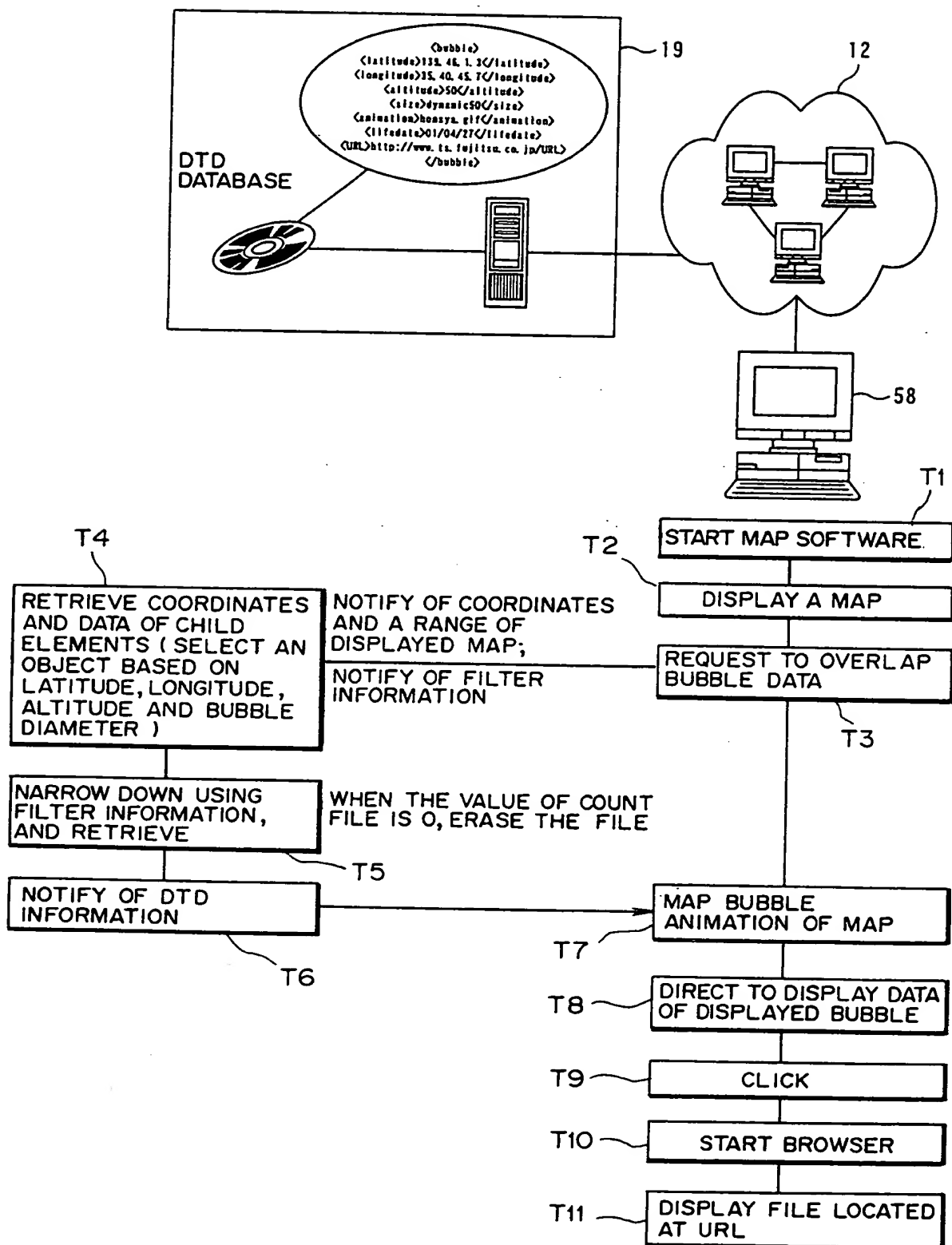


FIG. 25

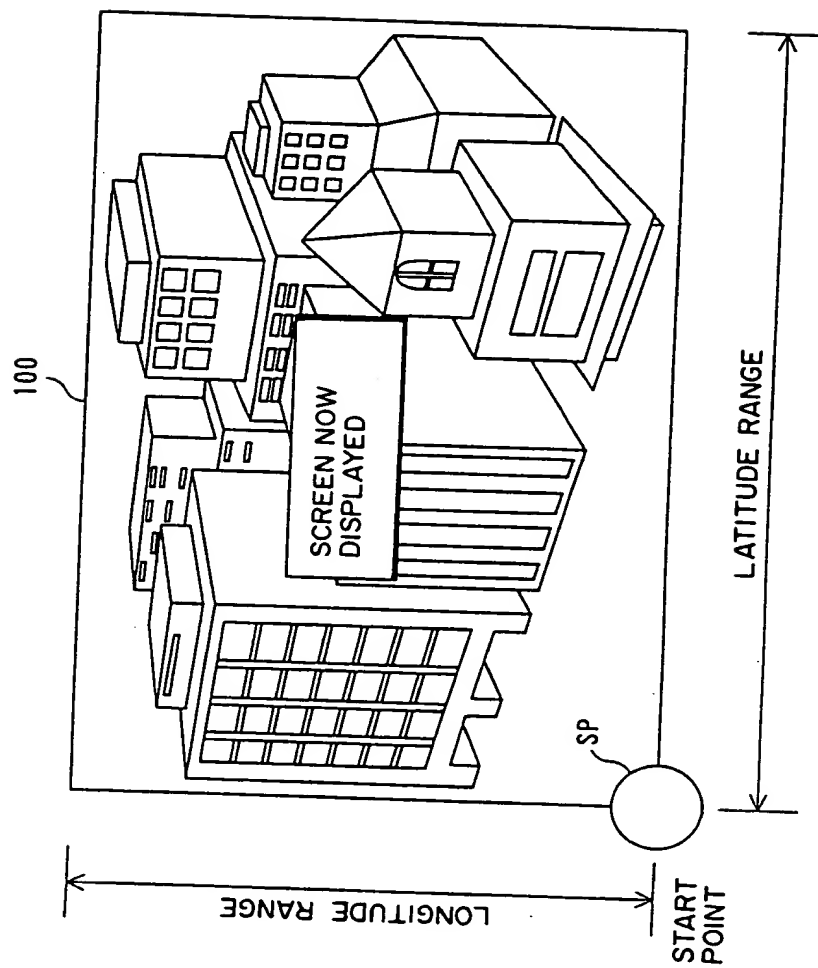


FIG. 26

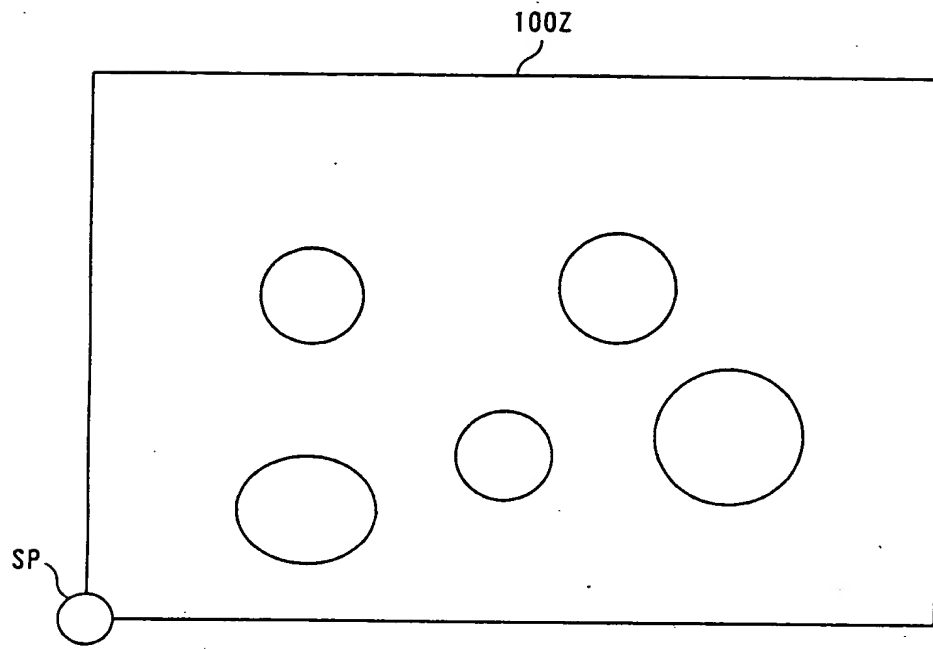
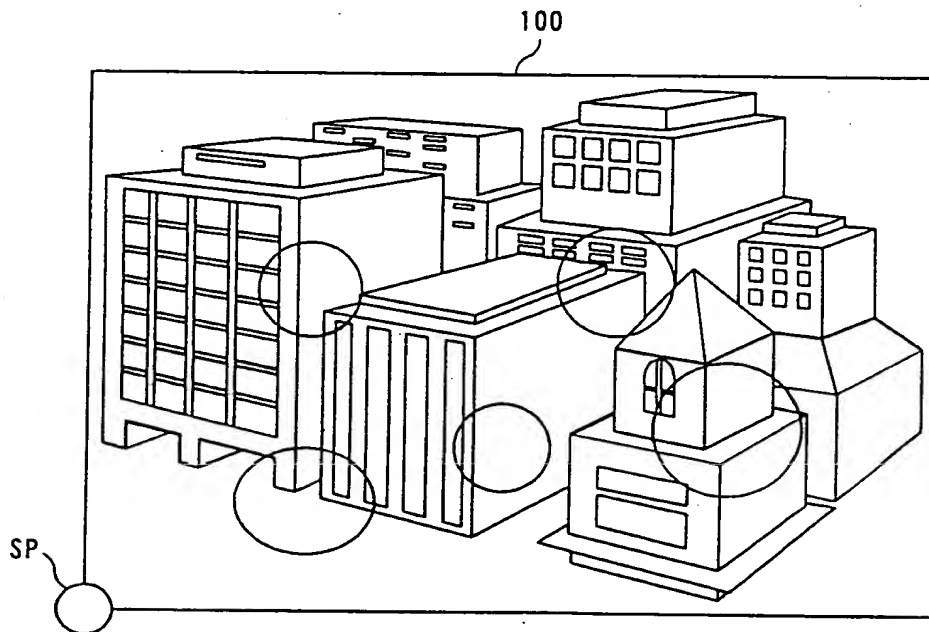
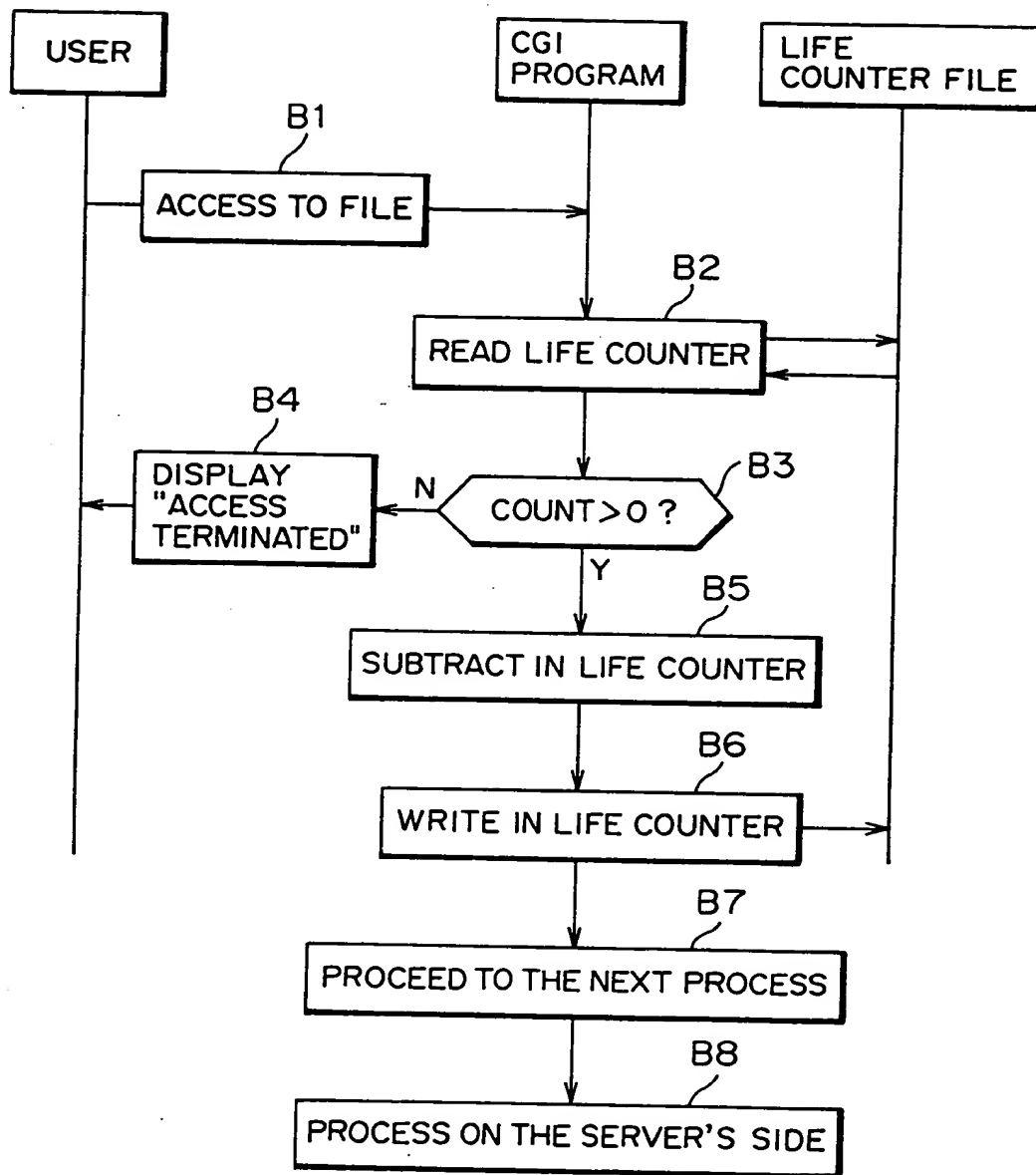


FIG. 27



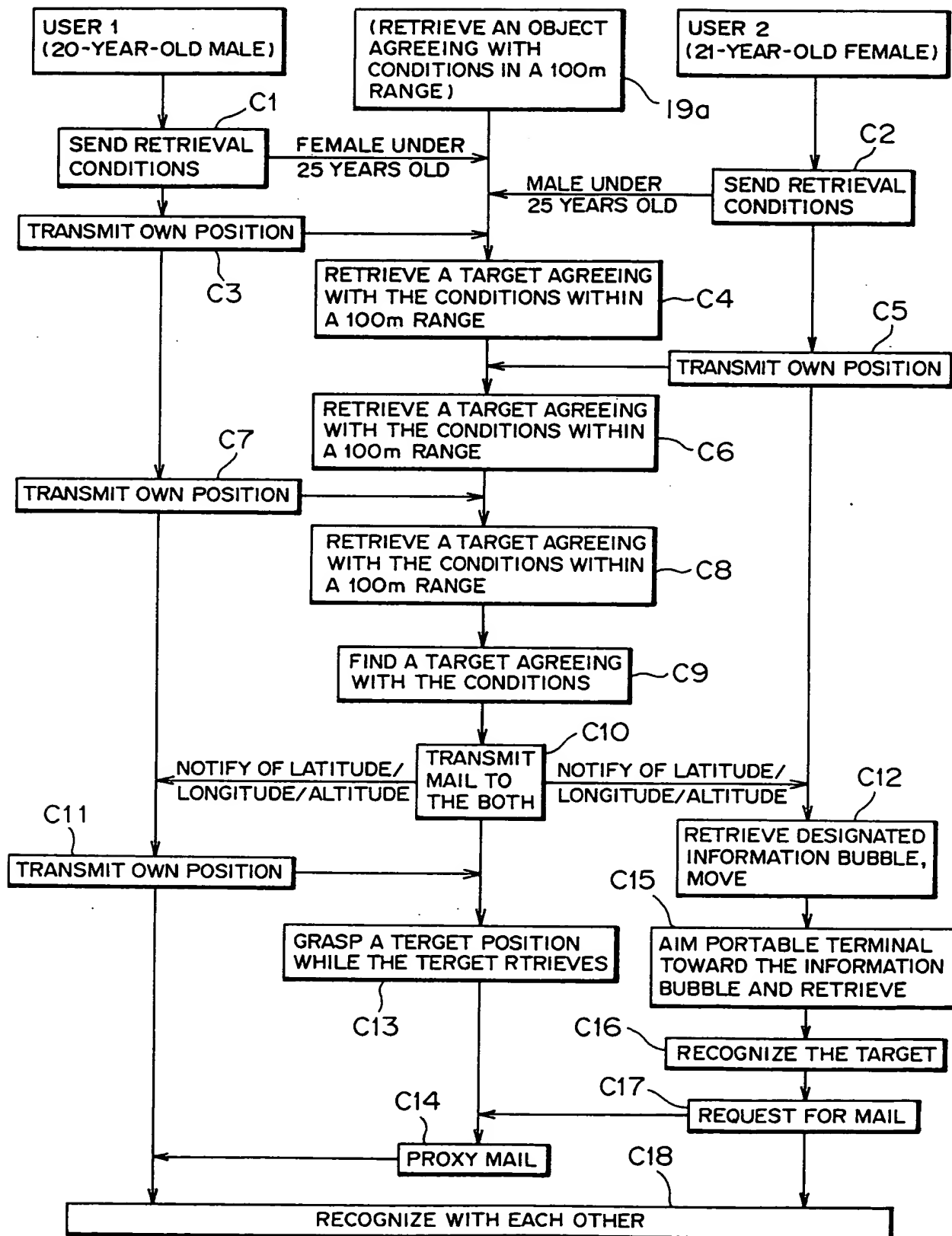
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FIG. 28



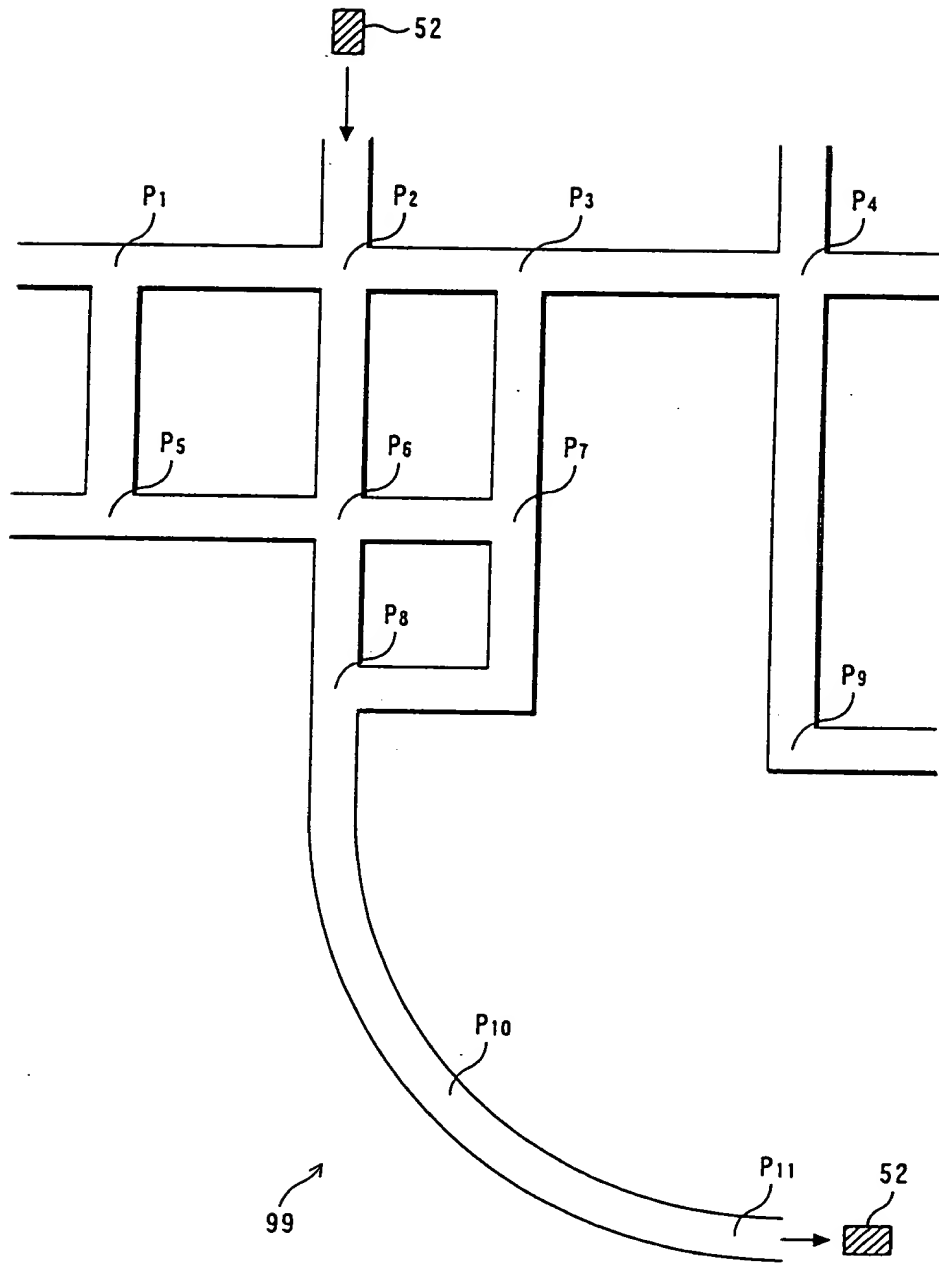
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FIG. 29



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FIG. 30



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FIG. 31

